# Nomenclatural Clarification in Aristea Section Racemosae (Iridaceae) in the Cape Flora of South Africa

## Peter Goldblatt

B. A. Krukoff Curator of African Botany, Missouri Botanical Garden, P.O. Box 299, St. Louis, Missouri 63166-0299, U.S.A. peter.goldblatt@mobot.org

John C. Manning

National Botanical Institute, P. Bag X7, Claremont 7735, South Africa. manning@nbict.nbi.ac.za

Roy E. Gereau

Missouri Botanical Garden, P.O. Box 299, St. Louis, Missouri 63166-0299, U.S.A. roy.gereau@mobot.org

We demonstrate that the correct names for three species of section Racemosae of the Afro-Magadagascan genus Aristea are: Aristea capitata (L.) Ker Gawler, A. bracteata Persoon, and A. bakeri Klatt. A neotype is selected for Gladiolus capitatus L. (1753), the basionym of A. capitata (L.) Ker Gawler (1802). Aristea major Andrews (1801) is placed in taxonomic synonymy with A. capitata. The typification and identity of Ixia thyrsiflora D. Delaroche (1766), basionym of Aristea thyrsiflora (D. Delaroche) N. E. Brown (1929), often regarded as conspecific with A. major, remain in question; however, due to priority of publication of the basionyms A. thyrsiflora presents no threat to the stability of A. capitata. Weimarck effectively lectotypified the superfluous and illegitimate name Moraea caerulea Thunberg (1787), basionym of Aristea caerulea (Thunberg) Vahl (1805). Aristea bracteata Persoon (1805) is accepted as a replacement name for M. caerulea, and is the oldest legitimate name available for this species. Aristea monticola Goldblatt (1971) was also published as a replacement name for M. caerulea, and thus falls into synonymy with A. bracteata. Aristea bakeri Klatt (1894) was published as a replacement name for the illegitimate later homonym A. paniculata Baker (1892). Aristea macrocarpa G. J. Lewis (1940) and A. confusa Goldblatt (1970) are placed in taxonomic synonymy with A. bakeri.

Key words: Aristea, Cape Flora, Iridaceae, South Africa.

The identity of *Gladiolus capitatus* L. (1753), the basionym of *Aristea capitata* (L.) Ker Gawler, has always been uncertain because no type has ever

been found. Early botanists dealing with the southern African Iridaceae, including Linnaeus's contemporary, C. P. Thunberg, were unanimous that the plant represented a robust species of a group that is now recognized as the Afro-Madagascan genus Aristea Aiton (ca. 50 species). The name Gladiolus capitatus has long been associated with the species currently known as A. major Andrews (1801) or A. thyrsiflora (D. Delaroche) N. E. Brown (1929), both of which represent the same plant (Ker Gawler, 1802; Baker, 1892, 1896), or with two other species, A. macrocarpa G. J. Lewis or A. confusa Goldblatt. The last two names were published for plants known at the time as A. capitata, which the respective authors rejected because this name lacked a type and could not be reliably identified to species (Lewis in Weimarck, 1940; Goldblatt, 1971). Confusion about A. capitata was such that Weimarck (1940) recognized A. capitata despite including its intended replacement name A. macrocarpa in the same account. In her account of Aristea for the Flora of the Cape Peninsula, Lewis (1950c) also regarded A. capitata and A. macrocarpa as separate species, despite her earlier treatment (Lewis in Weimarck, 1940). To add to the confusion, Goldblatt (1971) published yet another name, A. confusa, for the plants called A. capitata by Lewis (1950c).

These species are fairly closely related and were all included by Weimarck (1940) in *Aristea* sect. *Racemosae*, a taxon defined by woody capsules with three broad, radial wings that develop from the locules of the ovary with each locule containing between two and twelve radially compressed, lamellate seeds (seed number depending on the species)

(Goldblatt & Manning, 1997). Most members of the section are robust plants, often 1 m or more in height, with tough fibrous leaves, and a highly branched compound inflorescence (a synflorescence of binate rhipidia), but a few species are relatively small plants. Goldblatt and Le Thomas (1997) maintained section Racemosae in a phylogenetic analysis of Aristea that included several pollen characters. They showed that all the species of the section examined have unspecialized pollen grains with a single, smooth aperture and reticulate exine with small lumina. Goldblatt and Le Thomas included section Racemosae in Aristea subg. Aristea, which has two more sections, Aristea and Singulares. These two sections comprise small plants that resemble section Racemosae in their winged capsules and lamellate seeds (doughnut-shaped in Aristea singularis of sect. Singulares), but they have a dichotomously branched flowering stem, and in section Aristea unusually large pollen grains with complex, trisulcate to spiral, confluent apertures and reticulate exine with large lumina.

Aristea capitata was one of the first two species of the genus to be described, the other being A. africana (L.) Hoffmannsegg: basionym Ixia africana (Linnaeus, 1753). The latter is the type species of Aristea, formally named in 1789 in Aiton's Hortus Kewensis, actually as we now know by the Swedish botanist Daniel Carl Solander, who was never formally credited with authorship of the genus (Ker Gawler, 1802; Krok, 1925). At the time of its description, Aristea included only A. cyanea [Solander in] Aiton, an illegitimate synonym of Ixia africana. The British petaloid monocot expert John Ker Gawler (1802) transferred Gladiolus capitatus to Aristea and included Ixia thyrsiflora (Delaroche, 1766), Aristea major (Andrews, 1801), and Moraea caerulea Thunberg (now A. bracteata Persoon) as synonyms, indicating a broader interpretation of the species than we now believe is correct. In order to establish a stable taxonomy for Aristea, we have the choice of formally proposing the rejection of Gladiolus capitatus, an undertaking not certain of favorable outcome, or of choosing a suitable neotype for the species. We have decided on the latter alternative.

#### NEOTYPIFICATION OF GLADIOLUS CAPITATUS

As outlined above, the identity of *Gladiolus capitatus*, the earliest species referable to *Aristea* sect. *Racemosae*, has always been uncertain because of the absence of a type. The name has consistently been used for species of *Aristea* sect. *Racemosae* and has been applied either to the plant currently known as *A. major* or to another species, variously

called A. bakeri, A. macrocarpa, or A. confusa. The most likely species that Linnaeus had in mind when he described G. capitatus is the species later called Aristea major (Goldblatt & Manning, 2000), which has also been called A. thyrsiflora (Brown, 1929; Weimarck, 1940). The protologue of G. capitatus (Linnaeus, 1753: 37) refers to a large plant with blue flowers (planta maxima, floribus caeruleis), a branched stem (caule ramoso), a capitate flowering stem (capitulis pedunculatis), and a tuberous rootstock (radice tuberosa). Aristea major closely matches this description, particularly regarding the crowded and relatively compact synflorescence of numerous, blue flowers borne at the apex of an unbranched flowering stem (or peduncle), usually 1-1.5 m high (Goldblatt & Manning, 2000). The distinctive, dense synflorescence may well have prompted the specific epithet capitatus, meaning head-like. Aristea major has a range extending from the Cape Peninsula north to the Piketberg and east through the coastal Cape mountains to George. It is likely that a plant from the Cape Peninsula or nearby was one that came to Linnaeus's attention before 1753, for exploration of the then Dutch colony had not extended significantly into the interior at that time. Thus, from both morphological and geographical points of view the selection of a specimen currently assignable to A. major seems the ideal choice as a neotype for A. capitata, and A. major thus falls into synonymy.

This selection will stabilize the taxonomy of Aristea sect. Racemosae and has the added benefit of circumventing a nomenclatural controversy about the identity of Ixia thyrsiflora D. Delaroche (1766), which is most likely a species of Aristea. N. E. Brown (1929) maintained that a specimen in the Burman Collection at Geneva was the type of I. thyrsiflora, and that it represented A. major, making this an earlier name for that species. Goldblatt and Barnard (1970) disagreed that the Geneva specimen was the type, citing discrepancies in the protologue between the description, Delaroche's manuscript notes (in the Leiden Herbarium), and the Burman specimen. We are not prepared to clarify the typification of I. thyrsiflora in this paper; however, due to the priority of publication the name Aristea thyrsiflora presents no threat to the stability of A. capitata.

Aristea capitata (L.) Ker Gawler, Curtis's Bot. Mag. 17: pl. 605. 1802. Gladiolus capitatus L., Sp. pl. 37. 1753. TYPE: South Africa. Western Cape: foot of Du Toit's Kloof, 15 Oct. 1949, W. F. Barker 6075 (neotype, designated here, NBG; isoneotypes, K, MO, PRE).

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Aristea major Andrews, Bot. Repos. 3: pl. 160. 1801. TYPE: South Africa. Western Cape: without precise locality or collector, illustration in Andrews, Bot. Repos. 3: pl. 160. 1801.

Aristea thyrsiflora sensu N. E. Brown, Kew Bull. 1929: 36. 1929, non Ixia thyrsiflora D. Delaroche, Diss. pl.

nov. 20. 1766.

In the imperfect 19th century taxonomy of Aristea sect. Racemosae more than one species was included under the name Aristea capitata, most commonly A. bakeri or A. bracteata. Weimarck (1940) made significant progress in distinguishing the species of the section, admitting in addition to A. capitata, A. thyrsiflora (with A. major as a synonym), A. macrocarpa (described in this monograph by G. J. Lewis), the nomenclaturally superfluous A. caerulea (Thunberg) Vahl, and A. bakeri Klatt. The name A. capitata was applied to plants that we cannot at present distinguish in any way from Lewis's A. macrocarpa except for the smooth spathes and bracts, but specimens cited by Weimarck include plants that we would now refer to A. major. Moreover, the reference illustration cited by Weimarck (1940) for A. capitata, Curtis's Botanical Magazine plate 605, also seems to differ in no significant way from A. major. Other members of Aristea sect. Racemosae that Weimarck recognized, but do not directly concern the history of A. capitata, are A. juncifolia Baker, A. racemosa Baker, and A. rigidifolia G. J. Lewis.

This paper also deals with two nomenclatural and taxonomic questions in Aristea sect. Racemosae related to the neotypification of Gladiolus capitatus: the correct name for A. confusa Goldblatt, a substitute name for the illegitimate and superfluous A. caerulea (Thunberg) Vahl (basionym Moraea caerulea Thunberg); and the circumscription and earliest names for plants currently called A. bakeri Klatt, A. confusa, and A. macrocarpa (Goldblatt & Manning, 2000).

## THE CORRECT NAME FOR ARISTEA CAERULEA

In 1787 Thunberg described Moraea caerulea for what we now know was the second species of Aristea sect. Racemosae to be named, the first being A. capitata. In fact, specimens in the Thunberg collection at Uppsala, Sweden, show that his concept of M. caerulea included two species, the lectotype (effectively designated by Weimarck in 1940), which is now Aristea bracteata, and the species that we now call A. capitata. Moraea caerulea is superfluous under ICBN Art. 52.1 (Greuter et al., 2000), because Thunberg cited the name Gladiolus capitatus L. in the protologue which, under ICBN Art. 52.2, constitutes inclusion of its type. Since M. ca-

erulea is a superfluous basionym, it is illegitimate and not available for later use. Ker Gawler (1802) included M. caerulea in the synonymy of A. capitata, but other contemporaries evidently disagreed with him, and Vahl made the combination A. caerulea in 1805. South African born Hendrik Persoon (1805) also recognized Aristea, admitting five species to the genus, one of them A. bracteata, a new species, in which he included Thunberg's Moraea caerulea. Inclusion of that name in synonymy would seem to make A. bracteata a superfluous name, but inasmuch as M. caerulea is itself superfluous, Persoon's new name is valid and legitimate. Persoon cited the figure of M. caerulea in Thunberg's Dissertatio de Moraea (1787), which makes it easy to interpret A. bracteata, since Persoon probably did not see the specimens in Thunberg's collection, given the diffculties of travel and communication at the time. Thus, A. bracteata Persoon is a nomenclaturally acceptable name for A. caerulea (Thunberg) Vahl. The new name A. monticola proposed for Moraea caerulea (Goldblatt, 1971) becomes an unnecessary nomen novum and later synonym.

J. G. Baker followed Ker Gawler (1802) in treating Aristea caerulea as a synonym of A. capitata in his accounts of the genus in Handbook of the Irideae (1892) and Flora Capensis (1896), but Weimarck (1940) definitively recognized A. caerulea, pointing out its morphological differences including the conspicuously hispid-papillate, firm-textured spathes, relatively narrow leaves 3–6 mm wide, broad spathes and bracts, and relatively short capsules.

Aristea bracteata Persoon, Syn. pl. 1: 41. 1805, nom. nov. for Moraea caerulea Thunberg, Dissertatio de Moraea no. 12. 1787, nom. illeg. superfl. pro Gladiolus capitatus L. Aristea caerulea (Thunberg) Vahl, Enum. pl. 2: 124. 1805. Aristea monticola Goldblatt, J. S. African Bot. 37: 234. 1971. TYPE: South Africa. Without precise locality or date, Thunberg s.n. "M. caerulea α" (lectotype, designated by Weimarck (1940), UPS).

Aristea caerulea var. robusta Weimarck, Acta Univ. Lund, n.s. 36: 74. 1940. Syn. nov. TYPE: South Africa. Western Cape: without precise locality, Oct. 1915, R. Marloth 7173 (holotype, PRE).

Aristea caerulea var. elongata Weimarck, Acta Univ. Lund, n.s. 36: 73. 1940. Syn. nov. TYPE: South Africa. Western Cape: Saron, Sep. 1919, L. Bolus s.n. (syntypes, BOL 16739, K).

As outlined above, Aristea bracteata is readily recognized by the relatively large individual flower

clusters enclosed by broad, more or less dry, brown, firm-textured spathes and the relatively narrow leaves with prominent, hyaline margins. The spathes are also conspicuously scabrid or hispid, a feature shared with A. rupicola Goldblatt & J. C. Manning (1997) and A. macrocarpa (here included in A. bakeri), in which the character is weakly expressed and sometimes evidently absent. The latter species has distinctive, elongate capsules mostly 20–30 mm long and large flowers, the tepals ca. 20  $\times$  15 mm versus 12–17  $\times$  12–15 mm in A. bracteata (Lewis, 1950a, 1950b). As in other tall species of section Racemosae, there is some variation in branching pattern. Of the two additional varieties included in A. caerulea by Weimarck, A. caerulea var. elongata represents a plant with short lateral branches and sessile upper flower clusters, while variety robusta also has sessile upper flower clusters and capsules to 14 mm long, compared with capsules ca. 10 mm in the typical variety (Weimarck, 1940). We see no need to recognize these local variants.

The lectotypification of Moraea caerulea (Weimarck, 1940) is somewhat unsatisfactory, because Weimarck clearly designated the sheet annotated by Thunberg as "M. caerulea  $\alpha$ ," which consists only of the leafy part of the stem. In the protologue of M. caerulea, Thunberg listed two localities for his two collections (now mounted on three sheets), one from "between the Outeniqua Mts and the Langkloof" and the other from "hills around the Cape," without linking the localities to specific herbarium sheets. The narrow leaves of "M. caerulea  $\alpha$ " belong with the flowering stem of the sheet marked "M. caerulea  $\chi$ ," which is the plant illustrated in the Dissertatio (plate 2, fig. 2) and specifically cited by Persoon. This plant corresponds to our interpretation of A. bracteata, and Thunberg's cited locality, "hills around the Cape," agrees with this interpretation. The specimen "M. caerulea  $\beta$ " is the eastern form of Aristea capitata (presumably from "between the Outeniqua Mts and the Langkloof"). This form has darker rhipidial spathes and bracts and a somewhat less crowded synflorescence than the typical, western form.

## DELIMITATION OF ARISTEA BAKERI

Among the robust members of *Aristea* sect. *Racemosae* are plants with a panicle-like, compound inflorescence, broad, fibrous, strap-like leaves, and capsules at least three times as long as wide and mostly 18–28 mm long, that contain 3 or 4 seeds in each locule. Originally plants with such compound inflorescences and broad leaves were in-

cluded in A. capitata sensu Ker Gawler (1802), probably because the capsules were not known. Baker (1892, Aug.) was the first to distinguish the species as A. paniculata, a later homonym of A. paniculata Pax (1892, Apr.). Klatt (1894) provided the replacement name A. bakeri shortly thereafter for Baker's homonym, A. paniculata. Aristea macrocarpa was a new species described by the South African G. J. Lewis in Weimarck (1940) for plants until then included in A. capitata. Important features that Lewis used to distinguish A. macrocarpa were the elongate capsules, bristly abaxial surface of the spathes, and the entire, rust-brown bracts.

In view of Lewis's recognition of Aristea macrocarpa, the inclusion by Weimarck (1940) of A. capitata in his account is puzzling. Weimarck associated the name with plants from the southern Cape and elsewhere, and cited, as a reference specimen, the illustration in Curtis's Botanical Magazine pl. 605 (Ker Gawler, 1802), which we regard as A. capitata as the species is neotypified here. Specimens cited by Weimarck are either that species or fewbranched specimens of A. bakeri. Equally puzzling is Lewis's (1950c) account of Aristea in Flora of the Cape Peninsula, where she provided descriptions for both A. macrocarpa and A. capitata, and accommodated them in her key. Given the background Lewis gave for describing A. macrocarpa the treatment is, at best, confusing. Nevertheless, Lewis's field understanding of the Iridaceae and of Aristea was widely held to be sound. Respecting that, Goldblatt (1971) provided an alternative, A. confusa, for plants from the Cape Peninsula called A. capitata. Lewis (1950c) distinguished A. capitata from A. macrocarpa by the smooth rather than hispidulous bracts, narrower tepals  $16-20 \times 6-8$  mm (vs.  $18 \times 14$  mm for the outer tepals in A. macrocarpa), and capsules 12-20 mm long. The habit and details of the spathes (except for the scabridity) were essentially identical between the two species while the capsules of A. macrocarpa are longer, 18-35 mm.

Weimarck (1940), however, recognized one more species, Aristea bakeri, that closely resembled A. macrocarpa in general habit, spathe morphology, and in the diagnostically critical elongate capsules. The range of A. bakeri extended from Riversdale and Knysna eastward to the Vanstaden's River Mountains, thus overlapping that of Weimarck's A. capitata (i.e., A. confusa sensu Goldblatt) in the west, the range of which was seen as extending from the Cape Peninsula eastward to Knysna. As mentioned in our key to the species of section Racemosae (Goldblatt & Manning, 1997), Aristea bakeri is separated from A. capitata sensu Weimarck

(and A. confusa Goldblatt) on doubtful grounds. Weimarck's key criteria were: bracts brown and persisting; branches of the synflorescence erect; seeds dark, 3–4(–5) mm long for A. capitata; versus bracts gray-green and caducous; branches of the synflorescence spreading; seeds brown, 1.5–2 mm long for A. bakeri.

The distinction simply does not hold when the specimens in southern African herbaria, most of them not seen by Weimarck and collected after the 1950s, are examined. Branching in the species is somewhat variable, and caducous bracts are misleading. The bracts (by which we assume Weimarck meant leaves subtending the branches, not the spathes or floral bracts) in fact rarely fall. Lastly, the seed size distinction does not seem correct, for seeds of plants collected since Weimarck's time do not fall into his two size classes. We conclude that there is but one wild species for plant specimens variously called *Aristea bakeri*, *A. confusa*, or *A. macrocarpa*. The earliest available and legitimate name is Klatt's (1894) *A. bakeri*.

Aristea bakeri Klatt, in Durand & Schinz, Conspect. fl. afr. 5: 169. 1895 [as 1894], nom. nov. for Aristea paniculata Baker, Handb. Irid. 144. 1892, Aug., nom. illeg., non A. paniculata Pax, Bot. Jahrb. Syst. 15: 151. 1892, April. TYPE: South Africa. Western Cape: Galgebosch, near Vanstaden's River, Dec. 1872, P. MacOwan 2077 (holotype, K; isotypes, GRA, SAM).

Aristea macrocarpa G. J. Lewis, in Weimarck, Acta Univ. Lund., n.s. 36: 74. 1940. TYPE: South Africa. Western Cape: Cape Peninsula, Kirstenbosch, Nov. 1935, G. J. Lewis s.n. (holotype, BOL 21665).

Aristea confusa Goldblatt, J. S. African Bot. 36: 308, 1970, Syn. nov. TYPE: South Africa. Western Cape: Table Mountain, Nov. 1930, T. P. Stokoe s.n. (holotype, BOL 17518).

As circumscribed here, Aristea bakeri may be distinguished by the elongate, broadly winged capsules somewhat truncate at the apex and (12-)18-28(-35) mm long that contain 3 or 4 lamellate seeds per locule. The rhipidial spathes and bracts are broadly ovate, dry, rusty brown, and entire, although often becoming irregularly torn with age. Specimens from the west of its range, previously included in A. macrocarpa, have the abaxial surfaces of the spathes and sometimes the bracts lightly bristly or scabrid, a feature often obscure and visible only under the microscope, and even then sometimes only with careful examination. The open branching of the flexuose flowering stem helps distinguish the species from A. capitata, which has short capsules mostly 8-10 mm long and about

twice as long as wide, and narrow, lanceolate spathes and bracts, the margins of which are translucent and the midlines darkly pigmented. *Aristea bracteata*, which has prominently bristly spathes and bracts, can be distinguished by the larger rhipidia, slightly smaller flowers, short capsules 10–12(–14) mm long, and narrow leaves 3–6 mm wide.

Recent research in connection with the preparation of an account of Aristea in Cape Plants (Goldblatt & Manning, 2000) led us to conclude initially that A. confusa was conspecific with plants from the southeastern Cape called A. bakeri by Klatt (1894). At the time we still believed that A. macrocarpa was distinct from A. bakeri/confusa and separated them on the basis of the rhipidial spathes being scabrid-papillate (A. macrocarpa) or smooth (Goldblatt & Manning, 1997, 2000). That distinction is weak because the papillae are often poorly developed and seem to be absent in old inflorescences, and sometimes even in plants of the same collection. There appears to be no other distinction between the two species. Although we now include A. macrocarpa in A. bakeri, we recognize that the distinction in the spathe and bract vestiture may subsequently be linked with one or more characters that will prove our decision incorrect.

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